

**PORNOY, N.D.; KONDRATOVICH, V.V.; RABKIN, D.M.; ZIDOVSKY, M.L.; BOVIN, A.I.;
GENRIKHS DORF, N.G.; OLESHKOV, Yu.V.; SHASKIN, A.Ya.; KREMERMAN, P.L.;
KHODZHAYEV, A.I.; PISAREVSKIY, M.S.**

Automatic welding of aluminum alloy products instead of manual arc
welding with a carbon electrode. Suggestion by N.D.Pornoi and others.
Prom.energ.11 no.4:21-22 Ap '56. (MIRA 9:7)
(Aluminum alloys--Welding)

ZVONKOV, N.A., starshiy nauchnyy sotrudnik (Gor'kiy 9, ul. Krinova, d.18, kv.1)

Morphological characteristics of the changes during homoplasty
with refrigeration-preserved bone; experimental research. Ortop.
travm. i protez. 24 no.283-9 F'63. (MIRA 16:10)

1. Iz Gor'kovskogo instituta travmatologii i ortopedii (dir.
dotsent M.G. Grigor'yev).

(BONE GRAFTING)

ZVONKOV, N.A.

Results of frozen bone homoplasity in the treatment of pseudarthrosis,
bone defects and ununited fractures. Khirurgiia 40 no.5:64-72
My '64. (MIRA 18:2)

1. Gor'kovskiy nauchno-issledovatel'skiy institut travmatologii i
ortopedii (dir.-dotsent M.G. Grigor'yev).

~~ZVONOK~~
Side effects of penicillin. Vop. neirokhir. 21 no.3:50-52 My-Je '57.

(MLRA 10:10)

1. Gor'kovskiy institut vosstanovitel'noy khirurgii, travmatologii
i ortopedii.

(PENICILLIN, inj. eff.
case reports)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
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CIA-RDP86-00513R002065710019-0
CIA-RDP86-00513R002065710019-0"

ZVONKOV, N.A.

Use of radioactive indicators in studies on phosphorus metabolism
in the bones following plastic surgery with frozen homologous
grafts. Ortop., travm.i protea. 21 no.1:9-14 Ja '60.

(MIRA 13:12)

(BONE GRAFTING) (PHOSPHORUS METABOLISM)

Some comments on the therapy of obliterating endarteritis. Vest.
Khir. 84 no.6:107-108 Je '60. (MIHA 13:12)
(ARTERIES—DISEASES)

ZVONKOV, N.A., starshiy nauchnyy sotrudnik (Gor'kiy, 9, ul. Krinova, d.18)

Clinical and experimental homotransplantation of bones preserved
by means of refrigeration. Ortop., travm.i protez. 22 no.4:16-22
Ap '61. (MIRA 14:11)

1. Iz Gor'kovskogo nauchno-issledovatel'skogo instituta travma-
tologii i ortopedii (dir. - dotsent M.G. Grigor'yev).
(BONE GRAFTING)

ANTIBIOTICS

"On the Side-Effects of Penicillin," by N.A. Zvonkov, Gor'kiy Institute of Rehabilitation Surgery, Traumatology, and Orthopedics, Voprósy Neyrokhirurgii, No 3, May-June 1957, pp 50-52

The article concurs in the opinion of many scientists that the indiscriminate use of antibiotics produces the following side-effects: Urticaria, dermatitis, serum diseases, hematuria, high fever, thrombophlebitis and may also affect the central and peripheral nervous system.

The author himself observed complications in the central nervous system, which apparently is often very sensitive to antibiotics when introduced into the subarachnoid region.

While using penicillin prophylactically after an operation (replacing cranial defects with tantalum plate), he twice observed epileptic fits in a patient, which were directly caused by the use of penicillin. In two other cases, which he describes in detail, intralumbar administration of penicillin produced convulsions. And in yet another case, intracranial thrombosis was also attributed to penicillin by the author.

ZVONKOV, N.A., starshiy nauchnyy sotrudnik (Gor'kiy, 9, ul. Krinova, d.18, kv.1)

Some results of an experimental study and clinical observations
in homoplasty with frozen bone. Nov.khir.arkh. no.6:63-69 N-D
'58. (MIRA 12:3)

1. Gor'kovskiy nauchno-issledovatel'skiy institut ortopedii i trav-
matologii (nauchnyy rukovoditel' - prof. I.L. TSimkhes).
(BONE CRAFTING)

ZVONKOV, V.; CHERNOSKUTOV, K., inzh.

Important national economy problem. BTO 2 no.8:36 Ag '60.
(MIRA 13:10)

1. Chlen-korrespondent AM SSSR.
(Water resources development)

ZVONKOV, Vasiliy Fedosovich

[Advances in industrial relations during the period of the large-scale building of communism] Sovershenstvovanie proizvodstvennykh otnoshenii v period razvernutogo stroitel'stva kommunizma. Leningrad, Ob-vo po raspr. polit. i nauchn. znanii RSFSR, Leningr. otd-nie, 1960. 57 p. (MIRA 14:8)

(Industrial management)

GRIGOROVSKIY, Vasiliy Yefimovich; ZVONKOV, Vasiliy Fedorovich; VASIL'YEV,
A.V., red.; TIKHONOWA, I.M., tekhn.red.

[Development of production rates on collective farms] Razvitiye
proizvodstvennykh otnoshenii v kolkhozakh. Leningrad, Lenizdat,
1959. 89 p. (MIRA 13:5)

(Collective farms)

SMIRNOV, Vasiliy Filippovich; ZVONKOV, V.P., nauchnyy red.; ARKHAROVA, V.G., red.; TIKHONOVA, I.M., tekhn.red.

[Our great concern; growth of the material well-being of the working class during the fifth five-year plan; based on data from Leningrad enterprises] Velikaiia zabora: rost material'nogo blagosostoianiia rabochego klassa v gody piatiletki (na materialakh leningradskikh predpriatii). - Lenizdat, 1958. 129 p.

(MIRA 12:3)

(Russia--Economic conditions)

PLATE I BOOK EXPLORATIONS 307/3421
Kiev, Institut elektrosvarki iemal'eskogo Ya.O. Nekrasova
Kievskogo nauchno-issledovatel'skogo in-ta po elektrosvarki iemal'eskogo
i po vysokochastotnoj radioelektronike. 1959. 2 (Inroduction of
New Welding Methods to Industrial Production). Collection of Articles, No. 2. Kiev, Ode-
zda-Tekhnika, 117 p. Ukrainskij SSSR, 1959. 150 p. Arrows all printed.

PURPOSE: This book is intended for workers in the welding industry.
CONTENTS: The book contains a discussion of welding techniques and problems by groups of scientists and workers. Much attention is given to problems of the application of new methods of manufactured welding and electroslag welding. This is the second collection of articles under the same title published by the Institute of Metallurgy and Welding, Institute of the Ukrainian Academy of Sciences and Ministry of the Ukrainian Academy of Sciences and Ministry of the Lenin Prize. There are no references.

137. *Wolff, W.* [Candidate of Technical Sciences]. *Über die Produktion von Stromfurnaces*. Berlin, 1911. (Technische Universität, Elektrotechnik, Institut für Elektrotechnik und Feuerwehrtechnik, Dissertations-Sammlung, Nr. 10.)

138. *Wolff, W.* [Candidate of Technical Sciences]. *Über die Produktion von Stromfurnaces*. Berlin, 1911. (Technische Universität, Elektrotechnik, Institut für Elektrotechnik und Feuerwehrtechnik, Dissertations-Sammlung, Nr. 10.)

139. *Wolff, W.* [Candidate of Technical Sciences]. *Über die Produktion von Stromfurnaces*. Berlin, 1911. (Technische Universität, Elektrotechnik, Institut für Elektrotechnik und Feuerwehrtechnik, Dissertations-Sammlung, Nr. 10.)

Mr. H. H. Turner, Supervisor of the Welding Laboratory, Building Department, State Research Institute, Building Research Station, Heron's Green, Teddington, Middlesex TW11 8AE, England; Mr. G. D. Southern, Chief Research Officer, Building Research Station, Heron's Green, Teddington, Middlesex TW11 8AE, England; Mr. G. A. S. Petrie, Chief Research Officer, Building Research Station, Heron's Green, Teddington, Middlesex TW11 8AE, England.

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Date: Library of Congress (T3 227.A359)

1000 J. Neurosci., November 1, 2006 • 26(44):9992–10000

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25(1)

SOV/125-60-2-13/21

AUTHOR: Zvonkov, M.I.

TITLE: A Welding Head for Welding Aluminum

PERIODICAL: Avtomaticheskaya svarka, 1960, Nr 2, p 88 (USSR)

ABSTRACT: At the Institut elektrosvarki im. Ye.O. Patona AN USSR
(Institute of Electric Welding imeni Ye.O. Paton AS
UkrSSR) a special head has been developed, the A-586,
for welding aluminum, using a half-open arc on a flux
layer. The head is intended for the automatic welding
of butt joints 6 to 20-mm thick with one electrode of
1.2 to 4.0-mm diameter. With the aid of shift gears,
the wire feed speed can be varied from 198 to 715
m/hour, and the welding speed from 13.5 to 62 m/hour.
The heads can be made with left or right attachments
to the automatic welding machine, or they can be self-
-propelled, in which case a carriage is added to the
head.

Card 1/1

ZVONKOV, N.A., starshiy nauchnyy sotrudnik

Clinical use of bone homotransplants preserved by refrigeration.
Khirurgiia no.8:87-93 Ag '61. (MIRA 15:5)

1. Iz Gor'kovskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii (dir. - dotsent M.G. Grigor'yev)
(BONE GRAFTING)

ZVONKOV, N.A.

Late results of the treatment of osteoarticular tuberculosis
using lyophilized bone homografts. Khirurgiia 39 no.5:46-51
My '63. (MIRA 17:1)

1. Iz Mukhtolovskogo sanatoriya kostno-sustavnogo tuberkuloza (glavnnyy vrach K.N. Yastrebov).

ZVONKOV, N.A. (Gor'kiy)

Dynamics of the clinical aspects of penetrating craniocerebral
wounds during late and remote periods of traumatic brain disease.
Vop. neirokhir. 27 no.4:19-21 Jl-Ag'63 (MIRA 17:2)

1. Nauchno-issledovatel'skiy institut travmatologii i ortopedii
(dir. -- dotsent M.G. Grigor'yev).

ZVONKOV, N.A., starshiy nauchnyy sotrudnik (Gor'kiy 9, ul.Krinova,
d.18, kv.1)

Treatment of compression fractures of the spine. Ortop.,
travm. i protez. 24 no.8:64-67 Ag '63. (MIRA 17:1)

l. Iz Gor'kovskogo instituta travmatologii i ortopedii
(dir. - dotsent M.G. Grigor'yev).

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DENISOV, Yakov Andreyevich, kand. ekonom. nauk; ZVONKOV, V.E.
nauchnyy red.; UDAL'TSOV, O.A., red.; PETROVA, M.P., tekhn.
red.

[International socialist division of labor] Mezhdunarodnoe
sotsialisticheskoe razdelenie truda. Leningrad, Ob-vo po
rasprostraneniuu polit. i nauchnykh znanii RSFSR, 1962. 60 p.
(MIRA 15:3)

(Communist countries--Division of labor)

2-5-
SOV/6261

PHASE I BOOK EXPLOITATION

Kernenergie und Flotte; Artikelsammlung (Nuclear Energy and the Navy; Collection of Articles) [Berlin] Deutscher Militärverlag [1961]. 232 p. Errata slip inserted. 2000 copies printed.

Translation from the Russian of: Atomnaya energiya i flot.

Translator: Erika Steuk, Lieutenant Commander. Responsibility for German edition: Claus Gruszka, Engineer; Ed.: Klaus Krumsieg.

PURPOSE: This collection of articles is intended for officers of the army, coast guard, and merchant marine.

COVERAGE: The book, a translation from the Russian, contains 25 articles dealing with the application of nuclear weapons to naval combat operations. Chapters 19 and 25 have been supplemented with additional data for this edition. The devastating features of nuclear explosions are discussed. Attention is also given to the protection of personnel, ships, and coastal facilities against nuclear weapons, and to the present and future applications of nuclear power plants to shipping. No personalities are mentioned. There are 16 references: 10 Russian (including 3 translations from English-language sources), 1 French, 1 German, 1 English, 1 American, and 2 either English or American.

Nuclear Energy and the Navy (Cont.)

SOV/6261

19.	A. Uvarov, Engineer Lieutenant Commander, Docent, Candidate of Technical Sciences. U.S. Nuclear-Powered Submarines	162
20.	P. Mikhailov, Engineer Lieutenant Colonel, Candidate of Technical Sciences. Depth Charges	189
21.	M. Rudnitskiy, Engineer Rear Admiral. Nuclear Power Plants in Warships	192
22.	N. Solntsev, Engineer Captain (Navy), Docent, Candidate of Technical Sciences. Utilization of Nuclear Power Plants in Shipping	197
23.	V. Zvonkov, Corresponding Member, Academy of Sciences USSR, Honored Scientist and Technologist RSFSR. Nuclear Power Plants in Transportation	204
24.	N. Varvarov, Guards Colonel. Nuclear-Powered Flying Boat	209

Card 5/6

2/2

ZVONKOV, Vasiliy Fedosyich, kand.ekon. nauk; KUTS, M.K., nauchn.
red.; UDAL'TSOV, O.A., red.

[Role of engineering personnel in the building of communism] Rol' inzhenernykh kadrov v stroitel'stve kommunizma. Leningrad, Ob-vo "Znanie" RSRSR, 1965. 51 p.
(MIRA 18:10)

Eksploatatsiia vodnykh putей. [Exploitation of waterways]. [Moskva, Transpechat]
1927. 180 p. CSt-H

Kompleksnaia tipizatsiia tekhnicheskikh sredstv vnutrennogo vodnogo transporta.
[Complex typification of technical means of inland waterway transportation].
Moskva, Rechizdat. [1948].

Tekhnicheskia eksploatatsiia rechnogo flota. [Technical exploitation of the river
fleet]. Uchebnik dlia vtuzov. Moskva, Gos. transp. izd-vo, 1937. 429 p. diagrs.

DLC: TC745.79

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress,
Reference Department, Washington, 1952, Unclassified.

Desiat' let raboty rechnogo transporta SSSR. [Ten years of river transportation of the USSR]. (Vodnyi transpory, 1927, v. 5, no. 11, p. 425-36).

DLC: HE561.R8

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1952 Unclassified.

ZVONKOV, Vasili Vasil'evich

Kompleksnoe osvoenie malykh rek. [Complex reclamation of small rivers]. (Vodnyi transport, 1940, no. 7, p. 26-28). DLC: HE561.R8

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

ZYONKOV, Vasilii Vasil'evich

Razvitiye vognogo transporta Molotovskoi oblasti. [The development of waterway transportation in the Molotov province]. Doklad na Konferentsii Akademii nauk SSSR po izucheniiu proizvoditel'nykh sil Molotovskoi obl. 28/XI 1945 g. Molotov, Molotovskoe obl. izd-vo, 1946. 2^h p.

SO: Soviet Transportation and Communications. A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

Zvonkov, V. V., "Typification of Technical Media for Water Transportation." *Symposium*. "Problems in Increasing the Efficiency of Transportation." Academy of Sciences USSR, Section on Scientific Solution of Transportation Problems, Academy of Sciences USSR, 1949.

Magistrali blizhaishego budushchego. [Trunk lines of the near future.] (Izvestia, 1950, Sept 14)

SO: Soviet Transportation and Communications. A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

ZVORYKIN, V.P. (Moskva, D-284, Begovaya ulitsa, 11, kvartira 188)

Morphological bases of the ultrasonic and locating properties
of the dolphin. Arkh. anat., gist. i embr. 45 no.7:3-17 Je '63.
(MIRA 17:4)

1. Laboratoriya tsitoarkhiktoniki (zav. - zasluzhennyy deyatel'
nauki doktor med. nauk, prof. Ye.P. Kononova) Instituta mozga
ANN SSSR, Moskva.

GIRAYEV, M.A.; KARPOVICH, I.A.; ZVONKOV, B.N.

Frequency dependence of the field effect in photosensitive CdS films.
Fiz. tver. tela 6 no.7:2198-2200 Jl '64. (MIRA 17:10)

1. Gor'kovskiy gosudarstvenny universitet.

ZVONKOV, N.A.

Outcome of homoplastic operations by the use of frozen bones
in benign tumors and dysplasia of bones. Vop.onk. 11 no.11:
55-62 '65. (MIRA 1961)

1. Iz Gor'kovskogo nauchno-issledovatel'skogo instituta
travmatologii i ortopedii (direktor - dotsent M.G. Grigor'yev).

ZVONKOV APPROVED FOR RELEASE Thursday, September 26, 2002

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Great construction projects under communism and transportation. Moskva, Izd-vo
Akademii nauk SSSR, 1952. 93 pl. map. Akademija nauk SSSR. Nauchno-
populiarnaja serija. (53-15369)

HE255.Z68

ZVONKOV, V. V.

Transportation

New main transportation lines. Nauka i zhizn' 19 no. 5, '52.

Monthly List of Russian Accessions, Library of Congress, August, 1952. Unclassified.

Transportation

Transportation contributes to the great construction projects of communism.
Vest. AN SSSR 21 no. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, July 1952. UNCLASSIFIED.

USSR/Geophysics - Canals

Jan 53

"New Ship-Going Canals of the USSR," V. V. Zvonkov, Corr-Mem of Acad Sci USSR

"Priroda" No 1, pp 7-18

Description and photographs of the White Sea-Baltic Canal imeni Stalin, Canal imeni Moscow, Volga-Don Canal imeni Lenin, etc. Historical account of early canals.

243T68

6421. Tikhonov, I. i Zvonkov, V. Osnovnoy ekonomicheskiy zakon
sotsializma. L., Lenizdat, 1954. 112 s 20 sm. 10,000 ekz. 1 R.
zo K. -- (55-2356) P

SO: Knizhnaya Letopis' No. 6, 1955.

Speed and pulling characteristics of diesel freighters.
Mor. i rech.flot 14 no.5:17-21 My '54. (MLRA 7:7)

1. Chlen-korrespondent Akademii nauk SSSR. 2. TaMILEVT.
(Ships) (Diesel engines)

Window to the future. Tekh.mol.22 no.3:20-21 Mr '54. (MLRA 7:2)

1. Chlen-korrespondent Akademii nauk SSSR. (Technology)

~~ZVONKOV~~ SHIMKO, K.N., redaktor; MAKRUSHINA, A.N.,
redaktor izdatel'stva; SALAZKOV, N.P., tekhnicheskiy redaktor

[Calculations in ship traction; theory, calculations and tests]
Sudovye tiagovye raschety; teoriia, raschety, ispytaniia. Moskva,
Izd-vo "Rechnoi transport," 1956. 322 p. (MLRA 10:2)

1. Chlen-korrespondent Akademii nauk SSSR (for Zvonkov)
(Ships)

"The Application of Atomic Energy in Transportation," by V. Zvonkov, Corresponding Member, Academy of Sciences USSR, Moscow, Promyshlennno-Ekonomiceskaya Gazeta, 21 Nov 56

[Comment: In the following discussion of construction materials for lightweight, mobile nuclear reactors designed to supply power for transportation purposes, the author suggests that materials which are effective as moderators (i.e., beryllium) and exert a shielding effect (i.e., lead) be used as heat transfer agents, thus apparently implying that the use of materials which fulfill a double function will make it possible to reduce the weight of the reactor. However, the high melting point of beryllium (1,350°) makes it rather unsuitable for use as a heat transfer agent in the elemental state unless alloying elements which lower the melting point are present.]

Zvonkov discusses general engineering problems connected with the use of nuclear power engines in transportation. He also subjects to consideration the economic aspects of the use of nuclear power in land, water, and air transportation. According to a statement made by the author, some of the information given in the article is apparently based on results of studies made at the Institute of Complex Transportation Problems, Academy of Sciences USSR. The author discusses as follows the subject of construction materials for reactors:

"The selection of the cooling agent will exert a considerable influence on the design of nuclear power installations for industrial and transportation purposes. The cooling agent may be a liquid (water or heavy water), a fused metal (sodium, lithium, beryllium, lead, or bismuth), or a gas (helium or carbon dioxide). Certain difficulties will arise in connection with the creation of nuclear power installations for transportation purposes. For instance, the creation of a reliable reactor cooled with gas or liquid metal and operating in the temperature range of 750-900°C will involve the use of heat-resistant alloys, specifically titanium alloys, and also of ceramic materials.

"The system of biological protection against radiation injuries will be of particular importance in connection with nuclear installations used in transportation. In stationary nuclear power installations this system is distinguished by its great weight and large dimensions. It is obvious that the weight and dimensions must be small when the installation is used for transportation purposes.

"Wherever radioactive decay and nuclear fission take place, care must be taken to provide protection from gamma-rays and neutron rays, which have a high activity. Gamma-radiation is most effectively absorbed by substances with a high atomic weight, while the best protection from neutron rays is provided by moderators. It seems that the best method of providing protection in nuclear power installations used for transportation purposes will be the application of complex materials containing hydrogen, for instance, of steel sheets interlined with plastic materials or of other materials with a high atomic weight."

As far as reactor fuels are concerned, Zvonkov mentions as examples of reactor construction types of heterogeneous reactor in which uranium blocks are arranged within the moderator, forming a regular lattice, and a homogeneous reactor in which the fuel consisting of uranium oxide is mixed with heavy water functioning as the moderator.

Sum 1219

Card 1/1 Pub. 124 - 22/39

Authors : Zvonkov, V. V., Memb. Corres., Acad. of Sc., USSR

Title : Increase of speeds of transportation media

Periodical : Vest. AN SSSR 26/2, 112-115, Feb 1956

Abstract : Minutes are presented from the conference held at the Institute of Complex Transport Problems of the Acad. of Sc., USSR (Dec 14-16, 1955) on the problem of increasing the speed of transportation media. The conference was organized by the Institute of Complex Transport Problems of the USSR Academy of Sciences.

Publication :

Submitted :

~~ZVONKOV, Vsevolod Vasil'evich; KOMPLEKSNAIA, V.I., red. izd-va; SOBOLEV,~~
~~D.S., red. izd-va; RYLINA, Yu.V., tekhn. red.~~

[Integrated water resources development in the river basins of
the U.S.S.R.] Kompleksnoe ispol'zovanie vodnykh resursov v
rechnykh basseinakh SSSR. Moskva, Izd-vo Akad. nauk SSSR, 1957.
100 p. (MIRA 11:9)

1. Chlen-korrespondent Akademii nauk SSSR (for Zvonkov).
(Water resources development)

Mysteries of marine currents. Tekh. mol. 25 no.9:25 8 '57.

(MLRA 10r9)

1. Galen-korrespondent Akademii nauk SSSR.
(Atomic ships) (Naval architecture)

30-7-2/36

AUTHOR ZVONKOV, V.V., corresponding member of the Academy of Sciences of the U.S.S.R.

TITLE On the Problem of Utilizing the Water-Power Reserves of the World
(Problemy ispol'zovaniya mirovykh vodnykh resursov. Russian)

PERIODICAL Vestnik Akademii Nauk SSSR, 1957, Vol 27, Nr 7, pp 8 - 14 (U.S.S.R.)

ABSTRACT The U.S.S.R. possesses enormous water-power reserves. In the European part of the Union 45,000 rivers exist, in the Asiatic part more than 155,000. The total length of rivers in the U.S.S.R. was determined to be 3 million km. Of the 10 largest rivers of the earth with a water-drainage area of 2 million km² 4 are in the U.S.S.R., without counting the Volga, the largest river of the European part of the Union. Until recently these enormous water-power reserves were not utilized. It was not before the realization of the first plan of electrification (GOELRO) that the utilization of the water power of the rivers was begun. In close connection with the systematic establishment of the extensive channel system developed. The new industrial plants (especially the heavy industry) need very large amounts of water; the metallurgical works alone - 2 billion m³ per year. The consumption of drinking water in the U.S.S.R. amounts to 8 million m³ in 24 hours. In the projection of new large hydro-electric power stations all interests of power engineering are taken into account. In a complex utilization of water-power reserves the administrative, technical and economic aspects have to be taken

Card 1/2

30-7-2/36

On the Problem of Utilizing the Water-Power Reserves of the World into account, since the neighboring countries of the Union are also interested in it. Experience showed that such problems arose in the water-power utilization of the Amu-Darja (interested countries: 3 republics), of the Syr-Darja (3 republics) or of the West-Dwina (Dwina) in which project are also interested 3 countries. Several member countries of the UNO will soon express their opinions on the problem of complex utilization of the water-power reserves of the earth. Quite a number of problems of topical interest are to be solved.

ASSOCIATION Not given
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Card 2/2

Railroads in the U.S.A. Zhel. dor. transp. 40 no.8:81-88 Ag '58.
(MIRA 11:9)

1. Chlen-korrespondent AN SSSR.
(United States--Railroads)

Atomic Energy. 1. Soviet atomic state (Atomic Energy and the Soviet Collection of Articles) Moscow, Novostroy, 1959. 232 p. (Series: Nauchno-populyarnaya Number of copies printed not given.)

Mr. M. Baderi Tech. M. A. M. Gavrilova, 2d, and Comptier L. D. Chernova "no," Engineer, Captain.

Purpose: This book is intended for the general reader.

CONTENTS: The purpose in this collection discuss in popular style, and on the basis of data published in the Soviet and non-Soviet press, problems of the use of atomic and hydrogen weapons in combat operations at sea. The collection includes reports on the damaging factors of a nuclear explosion and on the same part of this weapon. A number of new publications and on the subject of the anti-submarine defense of ships and of naval objects, and on the introduction of nuclear power plants in naval ships. Also included is the collection and papers dealing with the future prospects for naval use of nuclear energy and with the construction of the world's first atomic submarine, the "Delta," which is expected to play an important part in the further development of the Arctic regions. The collection also contains papers published in the Journal "Soviet Power" in 1955 - 1956, in revised and supplemented form.

Frolov, I. Engineer Commander. Protection against Radiation

Al'batros, A. Engineer Lieutenant Colonel, and O. Kozhev, Engineer Major.

Major. "The Surge and its Shock Effect"

Frolov, I., Engineer Commander. Radiative Contamination

Khvorost, P. Captain, and V. Vladimirov, Engineer Captain. Antinuclear

Defense of a Ship

Kirilenko, G., Professor, Doctor of Technical Sciences, Engineer Captain.

Defense of Ships Against Explosions

Aboladze, P., Captain. Means of Antinuclear Protection of Ships of

Foreign Navies

Khokhlov, P., Candidate of Technical Sciences, Engineer Commander.

Antinuclear Defense of Light Ships

Osaitis, V., Engineer Colonel. Antinuclear Defense of Objects Aboard

Frolov, I., Engineer Commander. Radiation Mechanism

Al'batros, M., Engineer Colonel. Demobilization on a Ship

Nikulin, V., Engineer Captain. Protecting ships against radioactive

Contamination

Slobod, A., Doctor, Candidate of Technical Sciences, Engineer Lieutenant

Colonel. "Matters Regarding the Testing of Nuclear Weapons"

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ANDAMAN: Library of Congress (7767.039)

PHASE I BOOK EXPLOITATION

SOV/5494

Vasili'yev, Michail Vasili'yevich, and Sergey Zakharovich Qushchov
 Reportch iz XXI veka: my sovetskiy rasskazy dvadtsati deyavii
 sovetskich uchenykh naуk i tekhnike budushchego (Reports
 From the Twenty-First Century: Stories of Twenty-Nine Soviet
 Scientists on Science and Engineering of the Future) [Moscow]
 Izd-vo Sovetskaya Rossiya, 1958. 243 p. 50,000 copies printed.

Ed.: V. A. Golubkova; Tech. Ed.: O. I. Kleykova.

PURPOSE: This book is intended for the general reader.

COVERAGE: The book contains 27 articles (told reporters by Soviet scientists) dealing with probable future progress in physics, chemistry, electricity, metallurgy, engineering, mining, medicine, biology, agriculture, zoology, transportation, exploration of space, and photography; attention is given to automation, underground mining, production of coal, use of new metals, modernization of oil fields, atomic electric stations, production of metal parts by the process of explosion, explosions, Card-27.

Reports From the Twenty-First (Cont.)

SOV/5494

In due construction, cancer, internal longevity reserves, machine diagnosis of illnesses, surgery vs. treatment by ultrasound, mechanical heart substitutes, human body banks, medical engineering enriched fodder, superfectinases, artificial snow, refrigeration, "machoban" (radioactive radionuclides), power beam vs. nuclear, atomic sun (electromagnetic rays), mobiles (with radio motors), artificial sun (electromagnetic rays), focused above a city, nuclear power heated molecules to shine, future ocean ships, railway dragsters, molecules of the future, moving permanent, mobiles and driverless automobiles, electric cameras, the industrialization of Siberia, use of underground heat, climate control living on the moon, antimatter, and photon jet. Names of the interviewed scientists are given. There are no references.

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(MIRA 18:2)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M.V.
Lomonosova. Submitted July 4, 1964.

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710019-0

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710019-0"

MITROFANOVA, T.K.; ZVONKOVA, Ye.N.; SARYCHEVA, I.K.; IVASHCHENKO,
S.P.; PREOBRAZHENSKIY, N.A.

Lipides. Part 7: Synthesis of some triglycerides from linseed
and soybean oils. Zhur. ob. khim. 31 no.7:2178-2180 J1 '61.

(MIRA 14:7)

(Glycerides)

**ZAPESOCHNAYA, G. G.; ZVONKOVA, Ye. N.; MITROFANOVA, T. K.;
SEREBRENNIKOVA, G. A.; SARYCHEVA, I. K.; PREOBRAZHENSKIY, N. A.**

**Lipides. Part 16: Synthesis of triglycerides, constituents of
cocoa butter. Zhur. ob. khim. 32 no.12:3906-3909 D '62.
(MIRA 16:1)**

**1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni
M. V. Lomonosova.**

(Glycerides) (Cacao butter)

ZVONKOVA, Ye.N.; SEMENOVA, Yu.I.; GUS'KOVA, L.I.; SARYCHEVA, I.K.;
PREOBRAZHENSKIY, N.A.

Lipids. Part 25: Synthesis of substituted aliphatic vinyl
ethers. Zhur. ob. khim. 34 no.11:3659-366 N°64 (MIRA 18:1)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni
Lomonosova.

ZVONKOVA, Ye.N.; SARYCHEVA, I.".; PREOBRAZHENSKIY, N.A.

Synthesis of neutral plasmalogens. Dokl. AN SSSR 159 no.58
1079-1082 D '64 (MIRA 18:1)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M.V.
Lomonosova. Predstavлено akademikom A.N. Nesmeyanovym.

ZVONKOVA, Ye.N.; TSETLIN, V.I.; SARYCHEVA, I.K.; PREOBRAZHENSKIY, N.A.

Lipids. Part 27: Synthesis of α , and β -chimyldipalmitates.
Zhur. org. khim. 1 no.4:630-634 Ap. '65. (MIRA 18:11)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni
Lomonosova.

SARICHEVA, T.K.; STREBICHEVSKAYA, G.A.; ZVONKOVA, I.G.; MITROFANOVA, T.K.;
MAURIT, M.Ye.; UTKINA, O.V.; PILODRAZHENSKAY, N.A.

Synthesis of the main triglycerides of linoleic acid. Dokl. AN SSSR.
135 no.3:617-619 N '60. (MIRA 13:12)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M.V. Lomonosova.
Predstavлено акад. A.N. Nesmeyanovym.
(Linoleic acid)

SEREBRENNIKOVA, G.A.; ZVONKOVA, Yer.N.; ZAPESOCHNAYA, G.G.; SARYCHEVA, I.K.; PREOBRAZHENSKIY, N.A.

Lipides. Part 18: Synthesis of the glyceride constituents of corn oil. Zhur. ob. khim. 33 no. 2:437-440 F '63;

(MIRA 16:2)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V. Lomonosova.

(Corn oil) (Glycerides)

**PORNOY, N.D.; KONDRATOVICH, V.V.; RABKIN, D.M.; ZIDOVSKY, M.L.; BOVIN, A.I.;
GENRIKHS DORF, N.G.; OLESHKOV, Yu.V.; SHASKIN, A.Ya.; KREMERMAN, P.L.;
KHODZHAYEV, A.I.; PISAREVSKIY, M.S.**

Automatic welding of aluminum alloy products instead of manual arc
welding with a carbon electrode. Suggestion by N.D.Pornoi and others.
Prom.energ.11 no.4:21-22 Ap '56. (MIRA 9:7)
(Aluminum alloys--Welding)

ZVONKOV, N.A., starshiy nauchnyy sotrudnik (Gor'kiy 9, ul. Krinova, d.18, kv.1)

Morphological characteristics of the changes during homoplasty
with refrigeration-preserved bone; experimental research. Ortop.
travm. i protez. 24 no.283-9 F'63. (MIRA 16:10)

1. Iz Gor'kovskogo instituta travmatologii i ortopedii (dir.
dotsent M.G. Grigor'yev).

(BONE GRAFTING)

ZVONKOV, N.A.

Results of frozen bone homoplasity in the treatment of pseudarthrosis,
bone defects and ununited fractures. Khirurgiia 40 no.5:64-72
My '64. (MIRA 18:2)

1. Gor'kovskiy nauchno-issledovatel'skiy institut travmatologii i
ortopedii (dir.-dotsent M.G. Grigor'yev).

~~ZVONOK~~
Side effects of penicillin. Vop. neirokhir. 21 no.3:50-52 My-Je '57.
(MLRA 10:10)

1. Gor'kovskiy institut vosstanovitel'noy khirurgii, travmatologii
i ortopedii.

(PENICILLIN, inj. eff.
case reports)

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ZVONKOV, N.A.

Use of radioactive indicators in studies on phosphorus metabolism
in the bones following plastic surgery with frozen homologous
grafts. Ortop., travm.i protea. 21 no.1:9-14 Ja '60.

(MIRA 13:12)

(BONE GRAFTING) (PHOSPHORUS METABOLISM)

Some comments on the therapy of obliterating endarteritis. Vest.
Khir. 84 no.6:107-108 Je '60. (MIHA 13:12)
(ARTERIES—DISEASES)

ZVONKOV, N.A., starshiy nauchnyy sotrudnik (Gor'kiy, 9, ul. Krinova, d.18)

Clinical and experimental homotransplantation of bones preserved
by means of refrigeration. Ortop., travm.i protez. 22 no.4:16-22
Ap '61. (MIRA 14:11)

1. Iz Gor'kovskogo nauchno-issledovatel'skogo instituta travma-
tologii i ortopedii (dir. - dotsent M.G. Grigor'yev).
(BONE GRAFTING)

ANTIBIOTICS

"On the Side-Effects of Penicillin," by N.A. Zvonkov, Gor'kiy Institute of Rehabilitation Surgery, Traumatology, and Orthopedics, Voprósy Neyrokhirurgii, No 3, May-June 1957, pp 50-52

The article concurs in the opinion of many scientists that the indiscriminate use of antibiotics produces the following side-effects: Urticaria, dermatitis, serum diseases, hematuria, high fever, thrombophlebitis and may also affect the central and peripheral nervous system.

The author himself observed complications in the central nervous system, which apparently is often very sensitive to antibiotics when introduced into the subarachnoid region.

While using penicillin prophylactically after an operation (replacing cranial defects with tantalum plate), he twice observed epileptic fits in a patient, which were directly caused by the use of penicillin. In two other cases, which he describes in detail, intralumbar administration of penicillin produced convulsions. And in yet another case, intracranial thrombosis was also attributed to penicillin by the author.

ZVONKOV, N.A., starshiy nauchnyy sotrudnik (Gor'kiy, 9, ul. Krinova, d.18, kv.1)

Some results of an experimental study and clinical observations
in homoplasty with frozen bone. Nov.khir.arkh. no.6:63-69 N-D
'58. (MIRA 12:3)

1. Gor'kovskiy nauchno-issledovatel'skiy institut ortopedii i trav-
matologii (nauchnyy rukovoditel' - prof. I.L. TSimkhes).
(BONE CRAFTING)

ZVONKOV, V.; CHERNOSKUTOV, K., inzh.

Important national economy problem. BTO 2 no.8:36 Ag '60.
(MIRA 13:10)

1. Chlen-korrespondent AM SSSR.
(Water resources development)

ZVONKOV, Vasiliy Fedosovich

[Advances in industrial relations during the period of the large-scale building of communism] Sovershenstvovanie proizvodstvennykh otnoshenii v period razvernutogo stroitel'stva kommunizma. Leningrad, Ob-vo po raspr. polit. i nauchn. znanii RSFSR, Leningr. otd-nie, 1960. 57 p. (MIRA 14:8)

(Industrial management)

GRIGOROVSKIY, Vasiliy Yefimovich; ZVONKOV, Vasiliy Fedorovich; VASIL'YEV,
A.V., red.; TIKHONOWA, I.M., tekhn.red.

[Development of production rates on collective farms] Razvitiye
proizvodstvennykh otnoshenii v kolkhozakh. Leningrad, Lenizdat,
1959. 89 p. (MIRA 13:5)

(Collective farms)

SMIRNOV, Vasiliy Filippovich; ZVONKOV, V.P., nauchnyy red.; ARKHAROVA, V.G., red.; TIKHONOVA, I.M., tekhn.red.

[Our great concern; growth of the material well-being of the working class during the fifth five-year plan; based on data from Leningrad enterprises] Velikaiia zabora: rost material'nogo blagosostoianiia rabochego klassa v gody piatiletki (na materialakh leningradskikh predpriatii). - Lenizdat, 1958. 129 p.

(MIRA 12:3)

(Russia--Economic conditions)

PLATE I BOOK EXPLORATIONS 307/3421
Kiev, Institut elektrosvarki iemal'eskogo Ya.O. Nekrasova
Kievskogo nauchno-issledovatel'skogo in-ta po elektrosvarki iemal'eskogo
i po vysokochastotnoj radioelektronike. 1959. 2 (Inroduction of
New Welding Methods to Industrial Production). Collection of Articles, No. 2. Kiev, Ode-
zda-Tekhnika, 117 p. Ukrainskij SSSR, 1959. 150 p. Arrows all printed.

1961. 120 pages, 16x24 cm. RUB 1.50.
Author: V. V. Kuznetsov, Tech. Ed.: S. Matveevich.

PURPOSE: This book is intended for workers in the welding industry.

CONTENTS: The book contains a discussion of welding techniques and problems by groups of scientists and workers. Much attention is given to problems in the application of new methods of mechanized welding and electron-beam welding. It is the second collection of articles under the same title previously published by the Institute of Electronics, Soviet Acad. of Sciences, Institute of Electrical Welding, Institute of Physics, and Institute of Mathematics of the Ukrainian Academy of Sciences and Member of the Lenin Prize. There are no references.

Development and Introduction of New Techniques in Arsenic-54 Determination of Supply Bowl with Granular Charcoal. **P. K. Bhatia**, (Institute of Technical Sciences, Panjab Engineering College, Patiala-147002, India).

17
H. O. Fuchs, V. A. Kornblum, and W. H. Schaefer, "Electrolytic Treatment of Production Aluminum," *Trans. Metallurgical Society of AIME*, 211, 1959, 101-107; and H. H. Klemmer, "Electrolytic Treatment of Aluminum and Its Alloys," *Lighter Characteristics of Aluminum and Its Alloys*.

Library of Congress (73-227,4559) Date 7/7

二〇

25(1)

SOV/125-60-2-13/21

AUTHOR: Zvonkov, M.I.

TITLE: A Welding Head for Welding Aluminum

PERIODICAL: Avtomaticheskaya svarka, 1960, Nr 2, p 88 (USSR)

ABSTRACT: At the Institut elektrosvarki im. Ye.O. Patona AN USSR
(Institute of Electric Welding imeni Ye.O. Paton AS
UkrSSR) a special head has been developed, the A-586,
for welding aluminum, using a half-open arc on a flux
layer. The head is intended for the automatic welding
of butt joints 6 to 20-mm thick with one electrode of
1.2 to 4.0-mm diameter. With the aid of shift gears,
the wire feed speed can be varied from 198 to 715
m/hour, and the welding speed from 13.5 to 62 m/hour.
The heads can be made with left or right attachments
to the automatic welding machine, or they can be self-
-propelled, in which case a carriage is added to the
head.

Card 1/1

ZVONKOV, N.A., starshiy nauchnyy sotrudnik

Clinical use of bone homotransplants preserved by refrigeration.
Khirurgiia no.8:87-93 Ag '61. (MIRA 15:5)

1. Iz Gor'kovskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii (dir. - dotsent M.G. Grigor'yev)
(BONE GRAFTING)

ZVONKOV, N.A.

Late results of the treatment of osteoarticular tuberculosis
using lyophilized bone homografts. Khirurgiia 39 no.5:46-51
My '63. (MIRA 17:1)

1. Iz Mukhtolovskogo sanatoriya kostno-sustavnogo tuberkuloza (glavnnyy vrach K.N. Yastrebov).

ZVONKOV, N.A. (Gor'kiy)

Dynamics of the clinical aspects of penetrating craniocerebral
wounds during late and remote periods of traumatic brain disease.
Vop. neirokhir. 27 no.4:19-21 Jl-Ag'63 (MIRA 17:2)

1. Nauchno-issledovatel'skiy institut travmatologii i ortopedii
(dir. -- dotsent M.G. Grigor'yev).

ZVONKOV, N.A., starshiy nauchnyy sotrudnik (Gor'kiy 9, ul.Krinova,
d.18, kv.1)

Treatment of compression fractures of the spine. Ortop.,
travm. i protez. 24 no.8:64-67 Ag '63. (MIRA 17:1)

l. Iz Gor'kovskogo instituta travmatologii i ortopedii
(dir. - dotsent M.G. Grigor'yev).

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DENISOV, Yakov Andreyevich, kand. ekonom. nauk; ZVONKOV, V.E.
nauchnyy red.; UDAL'TSOV, O.A., red.; PETROVA, M.P., tekhn.
red.

[International socialist division of labor] Mezhdunarodnoe
sotsialisticheskoe razdelenie truda. Leningrad, Ob-vo po
rasprostraneniuu polit. i nauchnykh znanii RSFSR, 1962. 60 p.
(MIRA 15:3)
(Communist countries--Division of labor)

PHASE I BOOK EXPLOITATION

SOV/6261

Kernenergie und Flotte; Artikelsammlung (Nuclear Energy and the Navy; Collection of Articles) [Berlin] Deutscher Militärverlag [1961]. 232 p. Errata slip inserted. 2000 copies printed.

Translation from the Russian of: Atomnaya energiya i flot.

Translator: Erika Steuk, Lieutenant Commander. Responsibility for German edition: Claus Gruszka, Engineer; Ed.: Klaus Krumsieg.

PURPOSE: This collection of articles is intended for officers of the army, coast guard, and merchant marine.

COVERAGE: The book, a translation from the Russian, contains 25 articles dealing with the application of nuclear weapons to naval combat operations. Chapters 19 and 25 have been supplemented with additional data for this edition. The devastating features of nuclear explosions are discussed. Attention is also given to the protection of personnel, ships, and coastal facilities against nuclear weapons, and to the present and future applications of nuclear power plants to shipping. No personalities are mentioned. There are 16 references: 10 Russian (including 3 translations from English-language sources), 1 French, 1 German, 1 English, 1 American, and 2 either English or American.

Nuclear Energy and the Navy (Cont.)

SOV/6261

19.	A. Uvarov, Engineer Lieutenant Commander, Docent, Candidate of Technical Sciences. U.S. Nuclear-Powered Submarines	162
20.	P. Mikhailov, Engineer Lieutenant Colonel, Candidate of Technical Sciences. Depth Charges	189
21.	M. Rudnitskiy, Engineer Rear Admiral. Nuclear Power Plants in Warships	192
22.	N. Solntsev, Engineer Captain (Navy), Docent, Candidate of Technical Sciences. Utilization of Nuclear Power Plants in Shipping	197
23.	V. Zvonkov, Corresponding Member, Academy of Sciences USSR, Honored Scientist and Technologist RSFSR. Nuclear Power Plants in Transportation	204
24.	N. Varvarov, Guards Colonel. Nuclear-Powered Flying Boat	209

Card 5/6

2/2

ZVONKOV, Vasiliy Fedosyich, kand.ekon. nauk; KUTS, M.K., nauchn.
red.; UDAL'TSOV, O.A., red.

[Role of engineering personnel in the building of communism] Rol' inzhenernykh kadrov v stroitel'stve kommunizma. Leningrad, Ob-vo "Znanie" RSRSR, 1965. 51 p.
(MIRA 18:10)

Eksploatatsiia vodnykh putей. [Exploitation of waterways]. [Moskva, Transpechat]
1927. 180 p. CSt-H

Kompleksnaia tipizatsiia tekhnicheskikh sredstv vnutrennogo vodnogo transporta.
[Complex typification of technical means of inland waterway transportation].
Moskva, Rechizdat. [1948].

Tekhnicheskia eksploatatsiia rechnogo flota. [Technical exploitation of the river
fleet]. Uchebnik dlia vtuzov. Moskva, Gos. transp. izd-vo, 1937. 429 p. diagrs.

DLC: TC745.79

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress,
Reference Department, Washington, 1952, Unclassified.

Desiat' let raboty rechnogo transporta SSSR. [Ten years of river transportation of the USSR]. (Vodnyi transpory, 1927, v. 5, no. 11, p. 425-36).

DLC: HE561.R8

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1952 Unclassified.

ZVONKOV, Vasili Vasil'evich

Kompleksnoe osvoenie malykh rek. [Complex reclamation of small rivers]. (Vodnyi transport, 1940, no. 7, p. 26-28). DLC: HE561.R8

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

ZYONKOV, Vasilii Vasil'evich

Razvitiye vognogo transporta Molotovskoi oblasti. [The development of waterway transportation in the Molotov province]. Doklad na Konferentsii Akademii nauk SSSR po izucheniiu proizvoditel'nykh sil Molotovskoi obl. 28/XI 1945 g. Molotov, Molotovskoe obl. izd-vo, 1946. 2^h p.

SO: Soviet Transportation and Communications. A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

Zvonkov, V. V., "Typification of Technical Media for Water Transportation." *Symposium*. "Problems in Increasing the Efficiency of Transportation." Academy of Sciences USSR, Section on Scientific Solution of Transportation Problems, Academy of Sciences USSR, 1949.

Magistrali blizhaishego budushchego. [Trunk lines of the near future.] (Izvestia, 1950, Sept 14)

SO: Soviet Transportation and Communications. A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

ZVORYKIN, V.P. (Moskva, D-284, Begovaya ulitsa, 11, kvartira 188)

Morphological bases of the ultrasonic and locating properties
of the dolphin. Arkh. anat., gist. i embr. 45 no.7:3-17 Je '63.
(MIRA 17:4)

1. Laboratoriya tsitoarkhiktoniki (zav. - zasluzhennyy deyatel'
nauki doktor med. nauk, prof. Ye.P. Kononova) Instituta mozga
ANN SSSR, Moskva.

GIRAYEV, M.A.; KARPOVICH, I.A.; ZVONKOV, B.N.

Frequency dependence of the field effect in photosensitive CdS films.
Fiz. tver. tela 6 no.7:2198-2200 Jl '64. (MIRA 17:10)

1. Gor'kovskiy gosudarstvenny universitet.

ZVONKOV, N.A.

Outcome of homoplastic operations by the use of frozen bones
in benign tumors and dysplasia of bones. Vop.onk. 11 no.11:
55-62 '65. (MIRA 1961)

1. Iz Gor'kovskogo nauchno-issledovatel'skogo instituta
travmatologii i ortopedii (direktor - dotsent M.G. Grigor'yev).

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CIA-RDP86-00513R002065710019-0"

Great construction projects under communism and transportation. Moskva, Izd-vo
Akademii nauk SSSR, 1952. 93 pl. map. Akademija nauk SSSR. Nauchno-
populiarnaja serija. (53-15369)

HE255.Z68

ZVONKOV, V. V.

Transportation

New main transportation lines. Nauka i zhizn' 19 no. 5, '52.

Monthly List of Russian Accessions, Library of Congress, August, 1952. Unclassified.

Transportation

Transportation contributes to the great construction projects of communism.
Vest. AN SSSR 21 no. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, July 1952. UNCLASSIFIED.

USSR/Geophysics - Canals

Jan 53

"New Ship-Going Canals of the USSR," V. V. Zvonkov, Corr-Mem of Acad Sci USSR

"Priroda" No 1, pp 7-18

Description and photographs of the White Sea-Baltic Canal imeni Stalin, Canal imeni Moscow, Volga-Don Canal imeni Lenin, etc. Historical account of early canals.

243T68

6421. Tikhonov, I. i Zvonkov, V. Osnovnoy ekonomicheskiy zakon
sotsializma. L., Lenizdat, 1954. 112 s 20 sm. 10,000 ekz. 1 R.
zo K. -- (55-2356) P

SO: Knizhnaya Letopis' No. 6, 1955.

Speed and pulling characteristics of diesel freighters.
Mor. i rech.flot 14 no.5:17-21 My '54. (MLRA 7:7)

1. Chlen-korrespondent Akademii nauk SSSR. 2. TaMILEVT.
(Ships) (Diesel engines)

Window to the future. Tekh.mol.22 no.3:20-21 Mr '54. (MLRA 7:2)

1. Chlen-korrespondent Akademii nauk SSSR. (Technology)

~~ZVONKOV~~ SHIMKO, K.N., redaktor; MAKRUSHINA, A.N.,
redaktor izdatel'stva; SALAZKOV, N.P., tekhnicheskiy redaktor

[Calculations in ship traction; theory, calculations and tests]
Sudovye tiagovye raschety; teoriia, raschety, ispytaniia. Moskva,
Izd-vo "Rechnoi transport," 1956. 322 p. (MLRA 10:2)

1. Chlen-korrespondent Akademii nauk SSSR (for Zvonkov)
(Ships)

"The Application of Atomic Energy in Transportation," by V. Zvonkov, Corresponding Member, Academy of Sciences USSR, Moscow, Promyshlennno-Ekonomiceskaya Gazeta, 21 Nov 56

[Comment: In the following discussion of construction materials for lightweight, mobile nuclear reactors designed to supply power for transportation purposes, the author suggests that materials which are effective as moderators (i.e., beryllium) and exert a shielding effect (i.e., lead) be used as heat transfer agents, thus apparently implying that the use of materials which fulfill a double function will make it possible to reduce the weight of the reactor. However, the high melting point of beryllium (1,350°) makes it rather unsuitable for use as a heat transfer agent in the elemental state unless alloying elements which lower the melting point are present.]

Zvonkov discusses general engineering problems connected with the use of nuclear power engines in transportation. He also subjects to consideration the economic aspects of the use of nuclear power in land, water, and air transportation. According to a statement made by the author, some of the information given in the article is apparently based on results of studies made at the Institute of Complex Transportation Problems, Academy of Sciences USSR. The author discusses as follows the subject of construction materials for reactors:

"The selection of the cooling agent will exert a considerable influence on the design of nuclear power installations for industrial and transportation purposes. The cooling agent may be a liquid (water or heavy water), a fused metal (sodium, lithium, beryllium, lead, or bismuth), or a gas (helium or carbon dioxide). Certain difficulties will arise in connection with the creation of nuclear power installations for transportation purposes. For instance, the creation of a reliable reactor cooled with gas or liquid metal and operating in the temperature range of 750-900°C will involve the use of heat-resistant alloys, specifically titanium alloys, and also of ceramic materials.

"The system of biological protection against radiation injuries will be of particular importance in connection with nuclear installations used in transportation. In stationary nuclear power installations this system is distinguished by its great weight and large dimensions. It is obvious that the weight and dimensions must be small when the installation is used for transportation purposes.

"Wherever radioactive decay and nuclear fission take place, care must be taken to provide protection from gamma-rays and neutron rays, which have a high activity. Gamma-radiation is most effectively absorbed by substances with a high atomic weight, while the best protection from neutron rays is provided by moderators. It seems that the best method of providing protection in nuclear power installations used for transportation purposes will be the application of complex materials containing hydrogen, for instance, of steel sheets interlined with plastic materials or of other materials with a high atomic weight."

As far as reactor fuels are concerned, Zvonkov mentions as examples of reactor construction types of heterogeneous reactor in which uranium blocks are arranged within the moderator, forming a regular lattice, and a homogeneous reactor in which the fuel consisting of uranium oxide is mixed with heavy water functioning as the moderator.

Sum 1219

Card 1/1 Pub. 124 - 22/39

Authors : Zvonkov, V. V., Memb. Corres., Acad. of Sc., USSR

Title : Increase of speeds of transportation media

Periodical : Vest. AN SSSR 26/2, 112-115, Feb 1956

Abstract : Minutes are presented from the conference held at the Institute of Complex Transport Problems of the Acad. of Sc., USSR (Dec 14-16, 1955) on the problem of increasing the speed of transportation media. The conference was organized by the Institute of Complex Transport Problems of the USSR Academy of Sciences.

Publication :

Submitted :

~~ZVONKOV, Vsevolod Vasil'evich; KOMPLEKSNAIA, V.I., red. izd-va; SOBOLEV,~~
~~D.S., red. izd-va; RYLINA, Yu.V., tekhn. red.~~

[Integrated water resources development in the river basins of
the U.S.S.R.] Kompleksnoe ispol'zovanie vodnykh resursov v
rechnykh basseinakh SSSR. Moskva, Izd-vo Akad. nauk SSSR, 1957.
100 p. (MIRA 11:9)

1. Chlen-korrespondent Akademii nauk SSSR (for Zvonkov).
(Water resources development)

Mysteries of marine currents. Tekh. mol. 25 no.9:25 8 '57.

(MLRA 10r9)

1. Galen-korrespondent Akademii nauk SSSR.
(Atomic ships) (Naval architecture)

30-7-2/36

AUTHOR ZVONKOV, V.V., corresponding member of the Academy of Sciences of the U.S.S.R.

TITLE On the Problem of Utilizing the Water-Power Reserves of the World
(Problemy ispol'zovaniya mirovykh vodnykh resursov. Russian)

PERIODICAL Vestnik Akademii Nauk SSSR, 1957, Vol 27, Nr 7, pp 8 - 14 (U.S.S.R.)

ABSTRACT The U.S.S.R. possesses enormous water-power reserves. In the European part of the Union 45,000 rivers exist, in the Asiatic part more than 155,000. The total length of rivers in the U.S.S.R. was determined to be 3 million km. Of the 10 largest rivers of the earth with a water-drainage area of 2 million km² 4 are in the U.S.S.R., without counting the Volga, the largest river of the European part of the Union. Until recently these enormous water-power reserves were not utilized. It was not before the realization of the first plan of electrification (GOELRO) that the utilization of the water power of the rivers was begun. In close connection with the systematic establishment of the extensive channel system developed. The new industrial plants (especially the heavy industry) need very large amounts of water; the metallurgical works alone - 2 billion m³ per year. The consumption of drinking water in the U.S.S.R. amounts to 8 million m³ in 24 hours. In the projection of new large hydro-electric power stations all interests of power engineering are taken into account. In a complex utilization of water-power reserves the administrative, technical and economic aspects have to be taken

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On the Problem of Utilizing the Water-Power Reserves of the World into account, since the neighboring countries of the Union are also interested in it. Experience showed that such problems arose in the water-power utilization of the Amu-Darja (interested countries: 3 republics), of the Syr-Darja (3 republics) or of the West-Dwina (Dwina) in which project are also interested 3 countries. Several member countries of the UNO will soon express their opinions on the problem of complex utilization of the water-power reserves of the earth. Quite a number of problems of topical interest are to be solved.

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Railroads in the U.S.A. Zhel. dor. transp. 40 no.8:81-88 Ag '58.
(MIRA 11:9)

1. Chlen-korrespondent AN SSSR.
(United States--Railroads)

Atomic Energy. 1. Soviet atomic state (Atomic Energy and the Soviet Collection of Articles) Moscow, Novostroy, 1959. 232 p. (Series: Nauchno-populyarnaya Number of copies printed not given.)

Mr. M. Baderi Tech. M. A. M. Gavrilova, 2d, and Comptier L. D. Chernova "no," Engineer, Captain.

Purpose: This book is intended for the general reader.

CONTENTS: The purpose in this collection discuss in popular style, and on the basis of data published in the Soviet and non-Soviet press, problems of the use of atomic and hydrogen weapons in combat operations at sea. The collection includes reports on the damaging factors of a nuclear explosion and on the same part of this weapon. A number of new publications and on the subject of the anti-submarine defense of ships and of naval objects, and on the introduction of nuclear power plants in naval ships. Also included is the collection and papers dealing with the future prospects for naval use of nuclear energy and with the construction of the world's first atomic submarine, the "Delta," which is expected to play an important part in the further development of the Arctic regions. The collection also contains papers published in the Journal "Soviet Power" in 1955 - 1956, in revised and supplemented form.

Frolov, I. Engineer Commander. Protection against Radiation

Al'batros, A. Engineer Lieutenant Colonel, and O. Kozhev, Engineer Major.

Major. "The Surge and its Shock Effect"

Frolov, I., Engineer Commander. Radiative Contamination

Khvorost, P. Captain, and V. Vladimirov, Engineer Captain. Antinuclear

Defense of a Ship

Kirilenko, G., Professor, Doctor of Technical Sciences, Engineer Captain.

Defense of Ships Against Explosions

Khodata, P., Captain. Means of Antinuclear Protection of Ships of

Foreign Navies

Kostylev, P., Candidate of Technical Sciences, Engineer Commander.

Antinuclear Defense of Light Ships

Osait, V., Engineer Colonel. Antinuclear Defense of Objects Aboard

Frolov, I., Engineer Commander. Radiation Mechanism

Al'batros, M., Engineer Colonel. Decontamination on a Ship

Nikulin, I., Engineer Captain. Protecting ships against radioactive

Contamination

Slobod, A., Doctor, Candidate of Technical Sciences, Engineer Lieutenant

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tection on a Ship

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Weapons and Some Problems of Naval Tactics (According to Data from the

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Dovzhenko, I., Doctor, Candidate of Technical Sciences, Engineer Sub-

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Medvedev, N., Engineer Rear Admiral. Atomic Power Plants on Ships

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World's First Atomic Submar-

ine. "Delta," Engineer Captain.

Khodata, P., Corresponding Member of the Academy of Sciences of the

USSR. "Atomic Nuclear Power in the Field of Science and Technology of the

Marine. Atom-Powered Ships"

Nikulin, M., Doctor of Technical Sciences, Atomic Explorer of the Future (Accord-

ing to Data From the Foreign Press)

Slobod, A., Doctor, Candidate of Technical Sciences, Captain. "The World's First Atomic Submar-

ine. "Delta," Engineer Captain. The World's First Atomic Submar-

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ANDAMAN: Library of Congress (7767.039)

PHASE I BOOK EXPLOITATION

SOV/5494

Vasili'yev, Michail Vasili'yevich, and Sergey Zakharovich Qushchov
 Reportch iz XXI veka: my sovetskiy rasskazy dvadtsati deyavii
 sovetskich uchenykh naуk i tekhnike budushchego (Reports
 From the Twenty-First Century: Stories of Twenty-Nine Soviet
 Scientists on Science and Engineering of the Future) [Moscow]
 Izd-vo Sovetskaya Rossiya, 1958. 243 p. 50,000 copies printed.

Ed.: V. A. Golubkova; Tech. Ed.: O. I. Kleykova.

PURPOSE: This book is intended for the general reader.

COVERAGE: The book contains 27 articles (told reporters by Soviet scientists) dealing with probable future progress in physics, chemistry, electricity, metallurgy, engineering, mining, medicine, biology, agriculture, zoology, transportation, exploration of space, and photography; attention is given to automation, underground mining, production of coal, use of new metals, modernization of oil fields, atomic electric stations, production of metal parts by the process of explosion, explosions, Card-27.

Reports From the Twenty-First (Cont.)

SOV/5494

In due construction, cancer, internal longevity reserves, machine diagnosis of illnesses, surgery vs. treatment by ultrasound, mechanical heart substitutes, human body banks, sonic vibrations, enriched fodder, superfectinases, artificial snow, artificial snowdrifts, "machoban" states, power beams vs. mines, atomic bombs, "machoban" states, mobiles (with radio motors), artificial sun (electromagnetic rays), focused above a city, nuclear bombs hatched (induces to shine), future ocean ships, railway dragsters, mobiles of the future, moving permanent, mobiles and driverless automobiles, electric cameras, the industrialization of Siberia, use of underground heat, climate control living on the moon, antimatter, and photon jet. Names of the interviewed scientists are given. There are no references.

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Learn to Dream [A. N. Ramayakov, Academician]

THE FUNDAMENTAL AND MOST IMPORTANT THEMES

Transformation of Elements — the Future of Metallurgy [I. P. Barin, Academician, Vice-President, AS USSR]

Mines Are Breathing Their Last [I. S. Garkusha, Director of Vsesoyuzny nauchno-issledovatel'skiy institut "Podzemgaz" — All-Union Scientific Research Institute of Underground Gasification of Coal — and N. A. Fedorov, Deputy Director for the Scientific Section]

Automatic Oil Field [B. I. Mikron, Academician, and M. A. Popovychukov, Corresponding Member, AS USSR]

From the Sources [A. V. Vinter, Academician]

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A Picture of the [Future] School [G. A. Gradov, Director of the Institut proyektirovaniya obshchestvennykh zdanii i sooruzheniy -- Institute for Designing Public Buildings and Structures -- and A. Ye. Pozharskiy, Assistant Director]

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(Freight and freightage)

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Principles of integrated transport development in the U.S.S.R. Edited by Robert N. Taaffe. Chicago, Univ. of Chicago, Dept. of Geography (1958?)
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Bibliography: p. 62-63.

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[Ship tractive and propulsive speed calculations; a proposed
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POKROVSKIY, Georgiy Iosifovich; MORALEVICH, Yuriy Aleksandrovich;
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1. Chlen-korrespondent Akademii nauk SSSR (for Zvonkov). 2. Chlen
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Reduction of pyridine bases with formic acid. XI. Intereng, except the filtrate fil deco, washing the crystals
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